

Feb. 2012 Forcecast of Publications from COFFEE Project

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**Published, expected to be published, or expected to be cleared through WED,
by 30 September 2012**

Coffee Tasks

Task 1 – Policy and Environmental Drivers

Task 2 – COF Scoring Metrics and Scaling to Landscapes

Task 3 – Effects of COF and GCC on Biological Greenhouse Gas Regulation (BGHGR)

Task 4 – Effects of COF and GCC on Air Quality Regulation

Task 5 – Effects of COF and GCC on Water Quantity and Quality Regulation

Task 6 – Effects of COF and GCC on Wildlife Populations and Habitat Suitability

Contribution of Publications to COFFEE Tasks (see publication list below):

Pub No.	Status	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6
1	EPA Review	X					
2	Published				X		
3	Published				X		
4	In Prep	X					
5	Published					X	
6	In Review			X	X		
7	In Prep			X	X	X	
8	In Prep	X		X	X	X	
9	In Prep	X	X	X	X	X	X
10	Published	X	X	X	X	X	X
11	Cleared EPA		X				
12	Under Post-submission Revision		X				
13	Published						X
14	Internal Revisions		X				
15	Data Needed		X				
16	Data Needed		X				
17	Data Needed		X				
18	EPA Review		X				
19	In Prep			X			
20	In Prep			X			

1. Phillips DL, Beedlow PA, Ernst T, Burdick CA, White D. Carbon offset forestry analogs for the Willamette River Basin, Oregon: implications for ecosystem services. In revision as per technical and QA reviews for EPA clearance. To be submitted to Mitigation and Adaptation Strategies for Global Change

2. Phillips DL. WED-11-143. "The value of our public trees" The City newsletter, Corvallis OR, Winter 2011-2012, Volume 24, Number 8, page 5 published 11/18/11 on the web at http://www.ci.corvallis.or.us/downloads/cmo/newsletter/Winter_2011/Winter_2011_all.pdf
3. Phillips DL. WED-12-007. "Assessment of Ecosystem Services Provided by Urban Trees: Public Lands Within the Urban Growth Boundary of Corvallis, Oregon - Technical Report" published 11/18/11 on the web at http://www.ci.corvallis.or.us/downloads/pr/Urban_Forestry/Urban_Tree_Assessment_Tech_Report.pdf
4. One or more journal manuscripts from Kline J (USFS), Adams D (OSU), Latta G (OSU), Bell K (U of Maine) on private land use and forest management responses to different assumed prices of C for forest offsets
5. Abdelnour, Stieglitz, Pan and McKane. 2011. Catchment hydrological responses to forest harvest amount and spatial pattern. *Water Resources Research* 47, W09521, 18 pages.
6. Abdelnour, McKane, Stieglitz, Pan and Cheng. Effects of fire and harvest on carbon and nitrogen dynamics in a Pacific Northwest forest catchment. *Water Resources Research*, in review.
7. Abdelnour, McKane, Stieglitz and Pan. 2011. Catchment biogeochemical responses to forest harvest amount and spatial pattern. Ph.D. dissertation chapter, Georgia Institute of Technology, Atlanta, GA. To be submitted to peer-review journal, December 2011.
8. Abdelnour, Patil, Stieglitz, McKane and Pan. 2011. Climate Change Impacts on Hydrological and Biogeochemical Processes in forest catchments. Ph.D. dissertation chapter. Georgia Institute of Technology, Atlanta, GA. To be submitted to a peer-review journal, May 2012.
9. McKane, Abdelnour, Stieglitz, Pan, Brookes and Djang. Effects of alternative forest management practices on tradeoffs among multiple ecosystem services. In preparation for *Frontiers* or similar journal. Expected journal submission, July 2012.
10. Bolte, McKane, Phillips, Schumaker, White, Brookes, Olszyk. 2011. In Oregon, the EPA calculates nature's worth now and in the future. *Solutions* 2(6): 35-41.
11. Beedlow, P.A., E.H. Lee, D.T. Tingey, R.S. Waschmann, C.A. Burdick. The importance of temperature and moisture on seasonal growth of Douglas-fir in western Oregon, USA. Cleared EPA Review
12. Lee, E.H., P.A. Beedlow, R.S. Waschmann, D.T. Tingey. A nonlinear growth-climate relationship explains the divergence problem in dendroclimatology. Cleared EPA Review
13. The manuscript illustrating HexSim's approach to spotted owl life cycle simulation was prepared by the US Fish and Wildlife service, with input from Nathan. Nathan was not an author of the document. Please see the "Revised Recovery Plan for the Northern Spotted

Owl (*Strix occidentalis caurina*), available at:

<http://www.fws.gov/oregonfwo/Species/Data/NorthernSpottedOwl/> Appendix C has the majority of the discussion on HexSim modeling. Published on Web

14. Ebert, Nash, Johnson et al. Preliminary landform classification for Upper Panther Creek, Oregon. EPA Report. Draft has been written. Working on internal revisions.
15. Ebert, Nash, Johnson et al. Refining landform classification for Upper Panther Creek, Oregon with geo-referenced soil chemical and physical data. Awaiting data from NCRS. Data have been received from NRCS and we (EPA) are formatting it and making soil carbon calculations that will be sent to Don Ebert and M. Nash. This task should be completed by middle of March. After that this analysis will proceed. Estimated to be cleared June 2012.
16. Johnson, Ebert, Maynard, Nash et al. Comparison of estimates of soil carbon based on STATSGO and SSURGO data and a quantitative landscape analysis approach for Upper Panther Creek, Oregon. Awaiting data from NCRS. Data has been received from NRCS and we (EPA) are formatting it and making soil carbon calculations that will be sent to Don Ebert and M. Nash. This task should be completed by middle of March. After that this analysis will proceed. Estimated to be cleared July 2012.
17. Maynard, Johnson, Ebert, Nash, et al. Refining quantitative landscape analysis of forested watersheds on the eastern slopes of the Oregon Coast Range Mountains via inclusion of remotely sensed hyperspectral data. Awaiting data from NCRS. Data has been received from NRCS and we (EPA) are formatting it and making soil carbon calculations that will be sent to Don Ebert and M. Nash. This task should be completed by middle of March. Estimated to be cleared July 2012.
18. Pan, F., M. Stieglitz, and R. McKane. An algorithm for treating flat areas and depressions in digital elevation models using linear interpolation. In EPA review.
19. Jonathan Maynard, Mark Johnson, Garrett Liles. Temporal changes in soil carbon stability at a paired old-growth Douglas-Fir forest/clear-cut site. Final data are being collected here at WED.
20. Jonathan Maynard, Mark Johnson, Peter Nico. Soil manganese redox cycling in suboxic zones: effects on soil carbon stability. All data are in hand and analysis is beginning.